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GRANT NUMBER DAMD17-96-1-6227

TITLE: Dietary Intake, Alcohol Consumption, and Menopausal  
Status: A Comparison of Hispanic and Non-Hispanic White Women

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REPORT DATE: September 1997

TYPE OF REPORT: Annual

PREPARED FOR: Commander  
U.S. Army Medical Research and Materiel Command  
Fort Detrick, Frederick, Maryland 21702-5012

DISTRIBUTION STATEMENT: Approved for public release;  
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19980226 036

DTIC QUALITY INSPECTED 3

# REPORT DOCUMENTATION PAGE

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

<b>1. AGENCY USE ONLY (Leave blank)</b>		<b>2. REPORT DATE</b> September 1997	<b>3. REPORT TYPE AND DATES COVERED</b> Annual (1 Sep 96 - 31 Aug 97)	
<b>4. TITLE AND SUBTITLE</b> Dietary Intake, Alcohol Consumption, and Menopausal Status: A Comparison of Hispanic and Non-Hispanic White Women			<b>5. FUNDING NUMBERS</b> DAMD17-96-1-6227	
<b>6. AUTHOR(S)</b> Kathy Baumgartner				
<b>7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)</b> The University of Texas Health Science Center at Houston Houston, Texas 77225			<b>8. PERFORMING ORGANIZATION REPORT NUMBER</b>	
<b>9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)</b> Commander U.S. Army Medical Research and Materiel Command Fort Detrick, Frederick, Maryland 21702-5012			<b>10. SPONSORING/MONITORING AGENCY REPORT NUMBER</b>	
<b>11. SUPPLEMENTARY NOTES</b>				
<b>12a. DISTRIBUTION / AVAILABILITY STATEMENT</b> Approved for public release; distribution unlimited			<b>12b. DISTRIBUTION CODE</b>	
<b>13. ABSTRACT (Maximum 200)</b> The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health (UTSPH), Houston, Texas has been completed. Data are a subset of that collected for the study, 'Breast Cancer Epidemiology in NM Hispanic Women'. The Principal Investigator of this training grant served as Project Director of this study conducted by the Epidemiology and Cancer Control Program at the University of New Mexico. This statewide, population-based case-control study includes approximately 711 cases and 844 matched controls. Incident cases (January 1, 1992 - December 31, 1994) were ascertained through the New Mexico Tumor Registry. Controls were selected and matched on health planning district, ethnicity, and age-group. The data collected included demographics, reproductive and medical history, medication usage, cigarette usage and alcohol consumption, ethnic identification and acculturation, occupational and environmental factors, and diet. The dissertation research will focus on dietary factors, stratified on ethnicity and menopausal status. These will include macronutrients and micronutrients, as well as history of alcohol consumption and alcohol as a percent of total energy. Coursework taken at UTSPH focused on gaining a deeper knowledge of epidemiologic methods, nutrition, cancer, and genetics.				
<b>14. SUBJECT TERMS</b> Breast Cancer diet, alcohol, estrogen receptor status, menopausal status, Hispanic ethnicity			<b>15. NUMBER OF PAGES</b> 9	
			<b>16. PRICE CODE</b>	
<b>17. SECURITY CLASSIFICATION OF REPORT</b> Unclassified	<b>18. SECURITY CLASSIFICATION OF THIS PAGE</b> Unclassified	<b>19. SECURITY CLASSIFICATION OF ABSTRACT</b> Unclassified	<b>20. LIMITATION OF ABSTRACT</b> Unlimited	

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✓ \_\_\_\_ For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

\_\_\_\_ In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

\_\_\_\_ In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

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Kathy B. Baumgartner 9/25/97  
PI - Signature Date

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## INTRODUCTION

The first year of work towards the completion of a doctoral degree, focused on breast cancer epidemiology, at the University of Texas School of Public Health, Houston, Texas has been completed as outlined in the original statement of work. The details of the subject, purpose, and scope of the research as well as background of previous work was described in detail in the original proposal. Briefly, the focus of this predoctoral fellowship and doctoral dissertation will be on diet and alcohol and their associations with other risk factors for breast cancer, including estrogen receptor status. The basic hypothesis is that these factors may be important in the increasing rates of breast cancer.

The issues related to dietary factors, history of alcohol consumption and relationship to estrogen receptor status are timely as is their relationship to the increased incidence and mortality of breast cancer. These factors are of significance for women with breast cancer and especially so for Hispanic women, given the paucity of information on dietary and alcohol practices for this population (1) . Additionally, New Mexico has the largest percentage of Hispanics of all states in the United States (2) . In addition, the Hispanic population of New Mexico is also characterized by a unique stability; the majority (75%) report lifelong residence in the state. This fellowship application provides an opportunity to further research on the primary cancer for Hispanic women (3) , who will represent half of the second largest minority group in the US population by the year 2030 (4) .

The New Mexico Women's Health Study (NMWHS), a statewide, population-based case-control study, included approximately 711 cases and 844 frequency matched controls. Incident cases between January 1, 1992 and December 31, 1994 were ascertained through the New Mexico Tumor Registry (NMTR), one of the population-based cancer registries participating in the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program since 1973. Rates and trends of cancer incidence, mortality and survival are calculated by ethnicity, gender, and age groups for comparison with national and international data.

Controls were selected and matched on ethnicity, age-group, and geographic region. The data collected include demographics, reproductive and medical history, medication

usage, use of cigarettes and alcohol, ethnic identification and acculturation, occupational and environmental factors, and diet. Hormone receptor status data, collected by the NMTR for breast cancer cases will be linked to the data collected for cases by the NMWHS.

The specific hypotheses, technical objectives or specific aims and methods which includes a description of the NMWHS study, data collection, statistical methods, and preliminary data were discussed in detail in the original proposal.

## **BODY OF ANNUAL REPORT**

### **I. Statement of Work: Year 01 - Completed Tasks**

The first performance period (September 1, 1996 - September 30, 1997) of the predoctoral fellowship "Dietary Intake, Alcohol Consumption, and Menopausal Status: A comparison of Hispanic and Non-Hispanic White Women" has been completed. The principal investigator formed an advisory committee in Fall, 1996, composed of: Dr. John F. Annegers, Professor of Epidemiology; Dr. Ralph Frankowski, Professor of Biometry; and Dr. R. Sue McPherson, Assistant Professor of Epidemiology (Appendix A1 - approval of Ph.D. Advisory Committee form). A total of 36 credit hours were completed under the supervision of the advisory committee (Appendix A2 - list of courses), the minimum required prior to the Ph.D. Qualifying Examination.

The principal investigator attended the 30<sup>th</sup> Annual Meeting for the Society for Epidemiologic Research, held from June 12 - 14, 1997 in Edmonton, Alberta, Canada.

The qualifying examination was completed satisfactorily in August, 1997, permitting admission to candidacy for a doctoral degree.

### **II. Year 02: Summary of Plans**

During the second performance period (October 1, 1997 - September 30, 1998) any pertinent additional individual coursework will be taken. Library research will be conducted towards the Ph.D. proposal and dissertation, and data analysis will be initiated.

A request to appoint a Ph.D. doctoral thesis committee will be submitted in the Fall, 1997, and will include at least the three advisory members mentioned above, and Dr. Jonathan

M. Samet, Professor and Chairman of Epidemiology at Johns Hopkins University, School of Hygiene and Public Health, who was the original Principal Investigator of the 'New Mexico Women's Health Study'.

Following approval of the doctoral thesis committee, a dissertation proposal will be submitted to the advisory committee for approval and to the Associate Dean for Research.

## REFERENCES

1. Otero-Sabogal R, Sabogal F, Perez-Stable EJ, Hiatt RA. Dietary practices, alcohol consumption, and smoking behavior: ethnic, sex, and acculturation differences. *J of Natl Cancer Inst Monographs* 1995;18:73-82.
2. Becker TM, Wiggins CL, Elliott RS, Key CR, Samet JM. Racial and ethnic patterns of mortality in New Mexico. Albuquerque, NM: University of New Mexico Press, 1993.
3. Trapido EJ, Burciaga Valdez R, Obeso JL, Strickman-Stein N, Rotger A, Perez-Stable EJ. Epidemiology of cancer among Hispanics in the United States. *J of Natl Cancer Inst Monographs* 1995;18:17-28.
4. Ramirez AG, Villarreal R, Suarez L, Flores ET. The emerging Hispanic population: a foundation for cancer prevention and control. *J of Natl Cancer Inst Monographs* 1995;18:1-10.

**APPENDIX A-1**  
**List of Completed Courses**

**Fall 1996**

PH1820 Applied Statistical Analysis (4)  
PH1830 Advanced Statistical Methods in Epidemiology - Logistic Regression (2)  
PH1831 Analysis of Survival Time Data (2)  
PH2175 Principles of Toxicology I (3)  
Topics in Cancer Prevention I (1)  
12 credit hours

**Spring 1997**

PH2711 Advanced Epidemiologic Methods II (4)  
PH2177 Toxicology - Toxic Agents (3)  
PH2998 Pathology and Public Health (3)  
PH3340 Genetic Epidemiology (2)  
12 credit hours

**Summer 1997**

Regression and Logistic Regression Analysis (4)  
The Biology and Epidemiology of Cancer (2)  
Molecular Epidemiology (2)  
Breast Cancer: Diet and Alcohol (4)  
12 credit hours



# APPENDIX A-2

## Approval of Ph.D. Advisory Committee Form

THE UNIVERSITY OF TEXAS-HOUSTON HEALTH SCIENCE CENTER  
SCHOOL OF PUBLIC HEALTH

REQUEST TO APPOINT A PH.D. ADVISORY COMMITTEE  
TO BE SUBMITTED BY STUDENT'S ADVISOR.

DATE 11/14/96  
STUDENT NAME Kathy B. Baumgartner

I SHOULD LIKE TO REQUEST THAT THE FOLLOWING FACULTY, REPRESENTING MAJOR AND MINOR  
FIELDS OF CONCENTRATION, BE APPOINTED TO THIS STUDENT'S DOCTORAL ADVISORY  
COMMITTEE.

John F. Annegers  
FACULTY NAME - PRINTED

John F. Annegers  
FACULTY SIGNATURE

Epidemiology  
MAJOR FIELD

R. FRANKOWSKI  
FACULTY NAME - PRINTED

R. Frankowski  
FACULTY SIGNATURE

Biometry  
MINOR FIELD

R. Sue McPherson  
FACULTY NAME - PRINTED

R. Sue McPherson  
FACULTY SIGNATURE

Cancer/Neuro  
MINOR FIELD

I REQUEST THAT J. Fred Annegers, Ph.D. CHAIR THE COMMITTEE.

John F. Annegers  
ADVISOR

☒ REQUEST APPROVED

☐ REQUEST COULD NOT BE APPROVED BECAUSE \_\_\_\_\_

DEAN

B. Justice

DATE

11-15-96

ORIGINAL: Student File  
COPY 1: Advisor  
COPY 2-4: Faculty Members  
COPY 5: Student



School of Public Health  
Office of the Dean

September 19, 1997

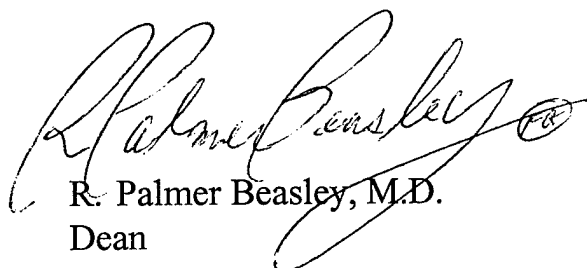
Kathy Baumgartner  
School of Public Health  
Student Mail Box

Dear Dr. Baumgartner,

Congratulations on the successful completion of your qualifying examination for the PhD degree which officially converts you from a doctoral student to a doctoral candidate.

We are pleased to have the opportunity to continue working with you as you proceed toward completion and presentation of an original research project that makes a substantial contribution to knowledge in community health sciences.

Yours sincerely,

A handwritten signature in cursive script, reading "R. Palmer Beasley, M.D.". The signature is written in dark ink and includes a small circular stamp or mark at the end.

R. Palmer Beasley, M.D.  
Dean

for RPB: fg  
cc: Student Records  
file/comp

# Memorandum

September 16, 1997

To: Palmer Beasley

From: Fred Annegers

J.F.A.

Regarding: Kathy Baumgartner

It is my pleasure to announce that Kathy Baumgartner has successfully completed her qualifying examination for the Ph.D. program in epidemiology. The committee recommends that she proceed to the dissertation phase of her program.

cc.

Sue McPherson

Ralph Frankowski